

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P636930

Luminaire Tested: **IFLD-M-SA4E-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636930
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17718.2 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

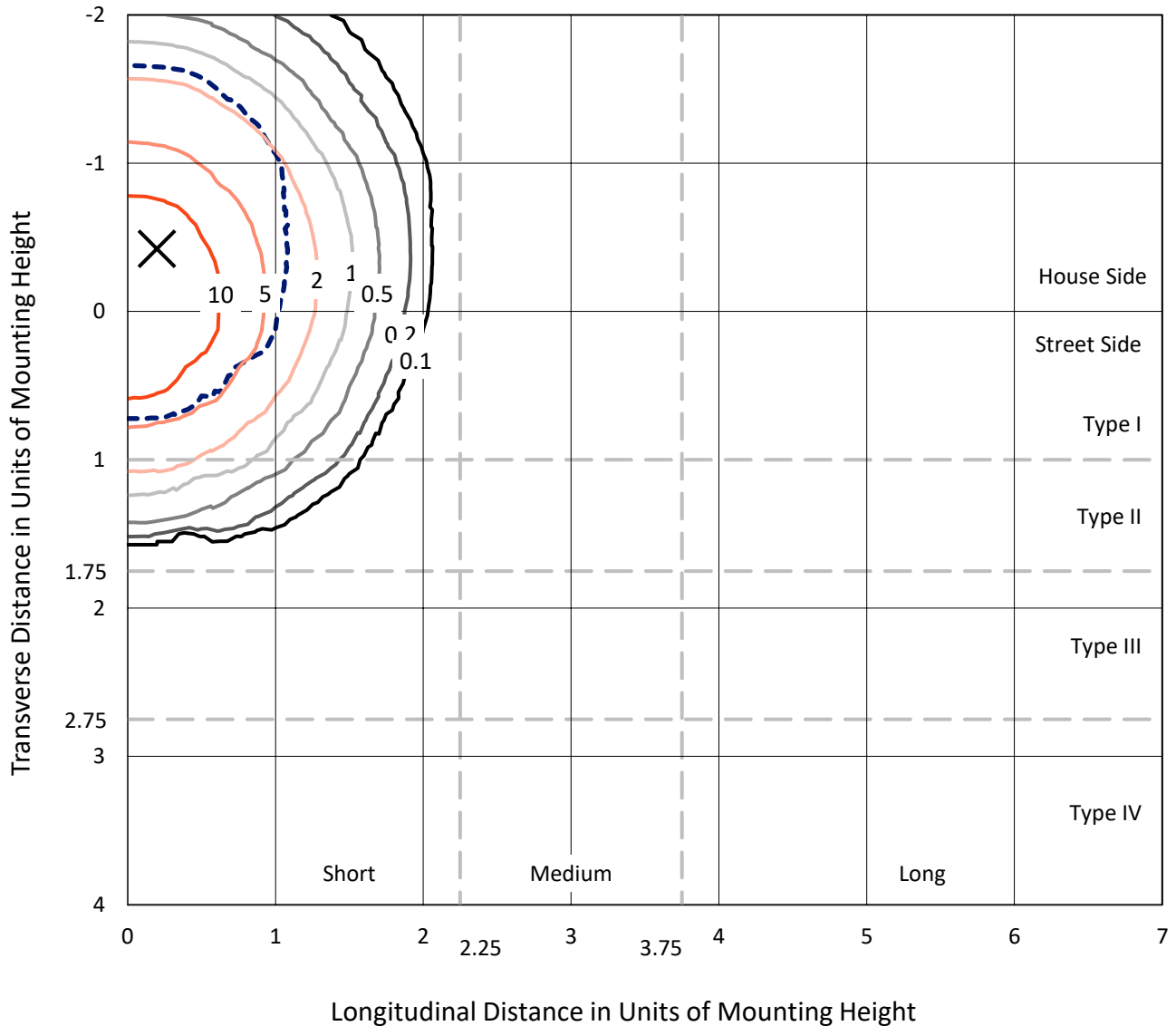
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

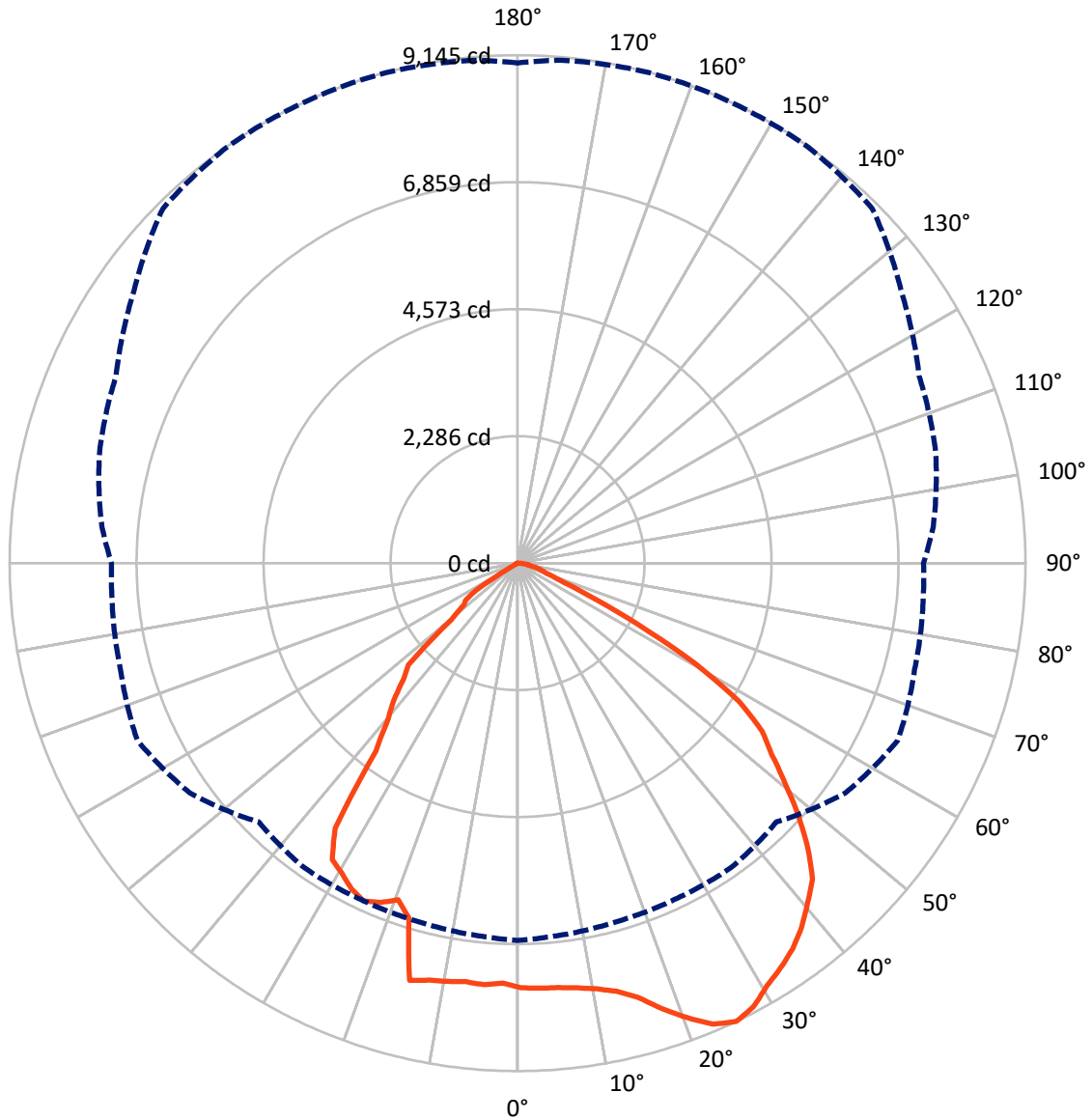
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10969.4	0.0	10969.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6748.8	0.0	6748.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	17718.2	0.0	17718.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.4	4.1
10°-20°	2239.5	12.6
20°-30°	3540.6	20.0
30°-40°	3999.4	22.6
40°-50°	3745.5	21.1
50°-60°	2582.3	14.6
60°-70°	693.8	3.9
70°-80°	144.6	0.8
80°-90°	39.1	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17718.2	100.0
0°-180°	17718.2	100.0



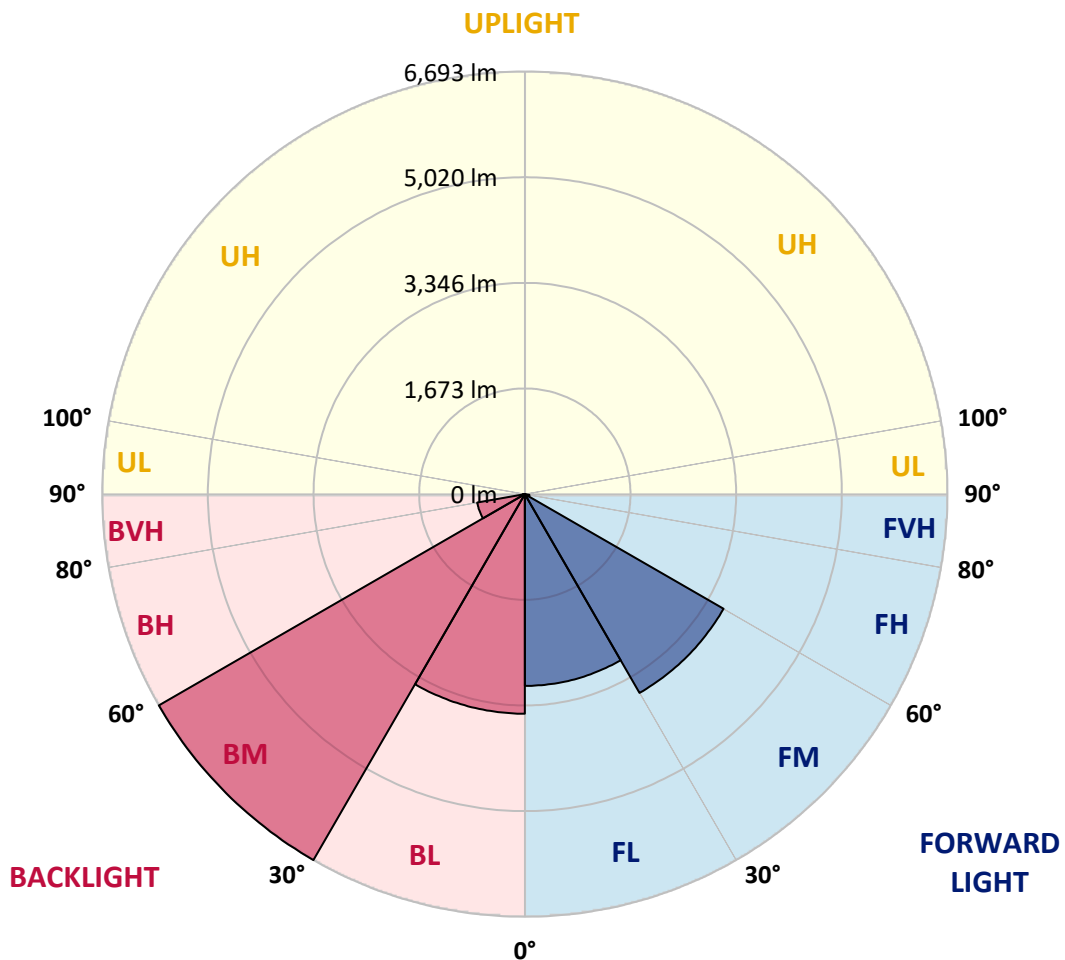
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3036.3	17.1			
FM (30°-60°)	3634.4	20.5			
FH (60°-80°)	72.8	0.4			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	3477.2	19.6	B4/5000		
BM (30°-60°)	6692.8	37.8	B4/8500		
BH (60°-80°)	765.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7645.1	7645.1	7645.1	7645.1	7645.1	7645.1	7645.1	7645.1	7645.1	7645.1
2.5°	7679.0	7629.5	7582.6	7567.0	7632.1	7702.4	7658.1	7660.7	7645.1	7673.8
5°	7736.2	7668.5	7637.3	7613.9	7624.3	7697.2	7634.7	7658.1	7632.1	7665.9
7.5°	7715.4	7668.5	7637.3	7593.0	7626.9	7712.8	7652.9	7655.5	7642.5	7673.8
10°	7702.4	7668.5	7629.5	7634.7	7673.8	7746.7	7699.8	7725.8	7707.6	7725.8
12.5°	7733.6	7697.2	7676.4	7676.4	7710.2	7793.5	7770.1	7793.5	7785.7	7801.3
15°	7439.4	7473.2	7671.1	7759.7	7827.4	7910.7	7900.3	7923.7	7928.9	7952.4
17.5°	6275.4	6241.6	6226.0	6681.7	7892.5	8150.3	8142.5	8139.9	8113.8	8095.6
20°	6429.1	6416.1	6397.8	6431.7	6567.1	8275.3	8327.3	8007.1	7913.3	7905.5
22.5°	6673.8	6653.0	6585.3	6587.9	6629.6	7194.6	8069.5	7777.9	7746.7	7728.4
25°	6793.6	6752.0	6697.3	6681.7	6694.7	6590.5	7207.6	7554.0	7400.3	7330.0
27.5°	6582.7	6585.3	6541.0	6582.7	6533.2	6064.5	5801.5	7116.5	7111.3	7080.1
30°	6423.9	6416.1	6364.0	6416.1	6074.9	5551.6	5439.6	6637.4	6582.7	6541.0
32.5°	5936.9	5942.1	6093.2	6296.3	5736.4	5322.4	4983.9	5929.1	6447.3	6423.9
35°	4247.0	4257.4	4793.8	5796.3	5223.5	4866.7	4840.7	5124.5	6233.8	6244.2
37.5°	4088.2	4088.2	4075.1	4239.2	4819.9	4681.8	4733.9	4705.3	5710.4	5736.4
40°	3973.6	3950.1	3931.9	3674.1	3351.2	4551.7	4588.1	4457.9	5397.9	5403.1
42.5°	3835.6	3809.5	3814.7	3338.2	2999.7	4228.8	4127.2	3952.8	4877.1	4882.3
45°	3583.0	3627.3	3658.5	2921.6	2895.6	3020.5	3806.9	3697.6	4525.6	4622.0
47.5°	1822.7	1861.8	2856.5	2687.2	2747.1	2684.6	3215.8	3218.4	3765.3	4085.5
50°	1653.5	1643.1	1645.7	1567.6	2536.2	2171.7	2325.3	2950.2	3015.3	3473.6
52.5°	1541.5	1538.9	1380.1	1226.4	1593.6	1911.3	1687.3	2135.2	2242.0	2942.4
55°	1140.5	1223.8	1088.4	1153.5	997.3	1531.1	1523.3	1926.9	1963.4	2359.2
57.5°	10.4	13.0	31.2	877.5	690.0	765.6	1052.0	1315.0	1380.1	1838.4
60°	2.6	5.2	13.0	26.0	447.9	471.3	703.1	760.3	856.7	1096.3
62.5°	0.0	0.0	5.2	13.0	23.4	192.7	223.9	244.8	377.6	559.8
65°	0.0	0.0	2.6	7.8	13.0	31.2	54.7	114.6	164.0	203.1
67.5°	0.0	0.0	2.6	5.2	10.4	15.6	31.2	44.3	70.3	119.8
70°	0.0	0.0	2.6	5.2	7.8	13.0	20.8	31.2	41.7	59.9
72.5°	0.0	0.0	2.6	5.2	5.2	15.6	15.6	23.4	31.2	39.1
75°	0.0	0.0	2.6	2.6	5.2	10.4	15.6	18.2	20.8	31.2
77.5°	0.0	0.0	2.6	5.2	7.8	10.4	13.0	20.8	18.2	18.2
80°	0.0	0.0	2.6	7.8	7.8	13.0	15.6	20.8	13.0	13.0
82.5°	0.0	0.0	2.6	10.4	7.8	26.0	26.0	28.6	10.4	10.4
85°	0.0	0.0	7.8	5.2	15.6	26.0	23.4	15.6	13.0	7.8
87.5°	0.0	0.0	2.6	2.6	5.2	7.8	18.2	15.6	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7645.1	0°	7645.1	7645.1	7645.1	7645.1	7645.1	7645.1	7645.1	7645.1	7645.1
7598.2	2.5°	7702.4	7668.5	7738.8	7731.0	7697.2	7681.6	7663.3	7647.7	7533.1
7603.4	5°	7705.0	7652.9	7738.8	7723.2	7718.0	7692.0	7676.4	7699.8	7595.6
7624.3	7.5°	7705.0	7652.9	7746.7	7751.9	7744.1	7723.2	7720.6	7736.2	7650.3
7660.7	10°	7757.1	7736.2	7814.4	7822.2	7811.8	7806.6	7793.5	7783.1	7692.0
7785.7	12.5°	7866.4	7824.8	7913.3	7936.7	7928.9	7942.0	7910.7	7926.3	7832.6
7913.3	15°	7999.2	8001.8	8069.5	8121.6	8116.4	8158.1	8111.2	8152.9	8085.2
8059.1	17.5°	8202.3	8231.0	8327.3	8405.5	8434.1	8465.3	8434.1	8447.1	8350.8
7897.7	20°	7988.8	8095.6	8559.1	8702.3	8762.2	8790.8	8738.8	8754.4	8658.0
7699.8	22.5°	7796.1	7934.1	8345.6	8793.4	8978.3	9035.6	9017.4	9014.8	8978.3
7309.2	25°	7512.3	7790.9	7975.8	8449.7	9030.4	9134.6	9145.0	9142.4	9087.7
7069.6	27.5°	7163.4	7225.9	7705.0	7994.0	8665.8	9061.6	9046.0	8970.5	8897.6
6572.3	30°	6718.1	7001.9	7218.1	7679.0	8194.5	8837.7	8837.7	8780.4	8704.9
6395.2	32.5°	6491.6	6858.7	7059.2	7225.9	7665.9	8587.7	8691.9	8632.0	8572.1
6257.2	35°	6371.8	6426.5	6895.2	7046.2	7418.6	8106.0	8527.8	8467.9	8423.7
5890.1	37.5°	6108.8	6236.4	6455.1	6858.7	6973.3	7712.8	8309.1	8277.9	8225.8
5413.5	40°	5522.9	5864.0	6199.9	6582.7	6702.5	7207.6	8043.5	8056.5	7986.2
4905.8	42.5°	5176.6	5408.3	5934.3	6192.1	6515.0	6882.2	7785.7	7806.6	7757.1
4648.0	45°	4770.4	5028.2	5397.9	5866.6	6306.7	6434.3	7330.0	7548.8	7507.1
4135.0	47.5°	4398.0	4606.3	5059.4	5533.3	6020.3	6002.0	6806.6	7218.1	7160.8
3741.8	50°	3869.4	4234.0	4447.5	4882.3	5608.8	5658.3	6249.4	6830.1	6783.2
3179.4	52.5°	3262.7	3721.0	4129.8	4528.2	5192.2	5309.4	5731.2	6434.3	6403.0
2429.5	55°	2851.3	3184.6	3645.5	3965.8	4687.1	4999.5	5343.2	6056.7	6041.1
1997.2	57.5°	2028.5	2671.6	3051.8	3499.7	3879.8	4444.9	4700.1	5288.6	5142.7
1106.7	60°	1374.9	1676.9	2140.4	2622.1	2877.3	3442.4	3679.3	4150.6	4111.6
661.4	62.5°	726.5	1005.1	1335.8	1578.0	1762.9	2312.3	2411.2	2919.0	2906.0
265.6	65°	320.3	424.4	723.9	848.9	1039.0	1294.1	1380.1	1562.4	1518.1
130.2	67.5°	166.7	252.6	408.8	502.6	632.8	729.1	799.4	856.7	893.1
85.9	70°	101.6	184.9	252.6	348.9	434.9	513.0	567.7	645.8	692.6
44.3	72.5°	75.5	117.2	174.5	268.2	315.1	406.2	460.9	518.2	559.8
36.5	75°	41.7	78.1	140.6	210.9	252.6	330.7	380.2	419.2	432.3
20.8	77.5°	26.0	59.9	117.2	164.0	197.9	268.2	255.2	291.6	322.9
15.6	80°	18.2	44.3	91.1	135.4	138.0	171.9	203.1	234.4	255.2
10.4	82.5°	13.0	36.5	67.7	104.2	91.1	132.8	158.8	182.3	132.8
7.8	85°	10.4	26.0	33.9	62.5	52.1	93.7	80.7	78.1	52.1
5.2	87.5°	7.8	13.0	23.4	28.6	20.8	20.8	26.0	31.2	26.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7645.1
7455.0
7507.1
7551.4
7616.5
7749.3
7973.2
8267.4
8590.3
8861.1
9004.4
8840.3
8676.3
8522.6
8361.2
8173.7
7970.6
7751.9
7512.3
7202.4
6791.0
6423.9
6059.3
5127.1
4114.2
2908.6
1499.9
893.1
695.2
567.7
424.4
328.1
257.8
96.3
52.1
26.0
0.0

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